

Sheet 1 of 6

FIG. 1A-1

Mtt1	793		CP
Upf1	547		FR
Sen1	1413	DRDEMREKNSVNVRNNDLRRNAQAHILAVSDFIICSTLSGSANDVIALATMGIK.	R
Dip1	351		FD
Dna2	1128	KHKVHPDTQKQVPPNYASVSKSYNDYLSKINSTSIVATCLGI.NDILFLNEKD.	ED
consensus	241	1 s iv tt ig g r l ti k fd	
Mtt1	816	VVIMDEAQSSEASTIVP1SLPGIR..NFVFVGDEKQISSESNIP.	OLE
Upf1	568	TVIIDEATQASEPECLIEI.VKGAK..QVIIIVGDHQOLG.	GIK
Sen1	1467	TVIIDEACQCTELSSIIIPTRY.GGK..RCIMVGDPNQI.	KYN
Dip1	391	TIIIDEVSQAMEPQCWIBILIAHQNQFHKLVLAGDNKQI.	PPTIKTEDDKNVIHNL
Dna2	1182	TVIIDEAQISMEPVAFGPTRY...GNRFFIMVGDHQI.	PPLYKINDAAAR..LGGLE
consensus	301	tviIDEatQ sep 1iP1 g r r i1vGD QL pp i a le	
Mtt1	862	TSIFERVYLNGTYKNPLM.TDTQYRMHEPKISEFHKKIYNGEI.	
Upf1	618	QSLFERPLISLGHV. PIR. LEVQYRMNPEYI SEFPNSMFIYEGSI.	
Sen1	1517	QSLFVPMEKN. . SSPIYL. LDVQYRMHESI SKFPSSEFYQGRIL.	
Dip1	446	TILEDFERLIKIFPKRDMDVKFLIVQYRMNQKIMEFPSSHSMYNGKILLADATVANRLLDLPTV	
Dna2	1231	ESELFKTFCEKHPEs. . VAELT1QYRMCGDIVTLSNFLIIDNKLKCGNNNEVFAQSLELPMP	
consensus	361	sLFerv1 p1 LdvQYRM p isefps iYngrl	
Mtt1	904		
Upf1	658		
Sen1	1556		
Dip1	506	DA.	
Dna2	1289	EALSRYRNESANSKQWLIEDILEPTRKVVFELNYDNCNPDIIEQSEKONNITNHGEAELTLQCV	
consensus	421		

Sheet 2 of 6

FIG. 1B

Mtt1	904	KDGVTIDEQKA.	WPGVQH.	BLF F YQCDIGFEFSR
Upf1	658	QNGVTIEQRTVPNSKFPWPPIRG.	EMMEW.ANYGREF.	
Sen1	1556	KDG.	PGMDILNKRPWHOLEPLABYKEFDIISGRO.	
Dip1	508	TPSED.	DDDTKIPLIWYD.TQGDFEQ.	
Dna2	1349	EGMLLSSGVPCED.		
consensus	481	dg		
			p1 fy g e	
Mtt1	934	VRSTQRDIVGFTYE.	NKHECVEIVKLIQIIMLDRKVPLE.	
Upf1	692	EISANGTSFL.	EI NRIEAMNCERIITKLERDGVKP.	
Sen1	1589	EQNAKTMSYT.	EQ NMEEIRVAELVDYLERKFDNKIDFTGK.	
Dip1	532	ETADEATIIGSKINEGEIAIVKEHIENLRSENVE.	NSI	
Dna2	1361			
consensus	541	e g ty	n e ii 1 e i	
Mtt1	974	GVITPYSQAORDIISDILTKVVINPKOISMQQEYDEIELENAAGSQGTA.	GSLQNNVINII	
Upf1	727	GVITPYEGORAYILQYMQMN.	GSLDK..DLY	
Sen1	1628	GIISPYREQ.	MQKMRKEFARYFGGMINKS.	
Dip1	570	GVISPVNAQVSHIKKKLHDELKLTD.		
Dna2	1362	GV M YIIPRAQLRIKKIIFNKNV.	Y	
consensus	601	Gvitpy aQ	1 ii nv	
			g 1	
Mtt1	1034	NGLHVAITVDSEQGH E KSE T IFSCVRN.	NTENKIGFILED K RRLNVALTRAK~	
Upf1	755	IKYEVASVDAFQGREKDY.	NEQQAI G FILED P RRLN G LTRAK~	
Sen1	1656	IDENTITDGFQGQEKEIILISCVRADDTKSSVGFLKDFRRMNVNVALTRAK~		
Dip1	595	IFIISIVDGFQGREKDVIILSIVRS.	NEKEFVGFLKEERRRNVA M TRPR~	
Dna2	1384	DGLEIILADOFQGRDKKKCIIISMVRNSQLNGGAILKEIRRNVNAMTRAKS		
consensus	661	Iev tvDaFQGrekd	IIIScVR n n igflkd RRINvalTRak	